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## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/10293A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C12P23/00 C12M1/36 // (C12P23/00, C12R1:645)

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C12P C12N C12M C12R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, FSTA, EMBASE, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 015 684 A (JOLLY SETSUKO OMATA ET AL) 18 January 2000 (2000-01-18) cited in the application the whole document ---	1-10 -/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search	Date of mailing of the international search report
18 March 2004	31/03/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel: (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Wiame, I

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International Application No  
PCT/EP 03/10293

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>YAMANE YU-ICHI ET AL: "Influence of oxygen and glucose on primary metabolism and astaxanthin production by <i>Phaffia rhodozyma</i> in batch and fed-batch cultures: Kinetic and stoichiometric analysis"  <i>APPLIED AND ENVIRONMENTAL MICROBIOLOGY</i>, vol. 63, no. 11, November 1997 (1997-11), pages 4471-4478, XP002274005  ISSN: 0099-2240  abstract  page 4472, column 1, paragraph 6 -  paragraph 8  page 4475, column 1, paragraph 2 -page  4476, column 2, paragraph 1; figure 4</p>	1,3,5,8
X	<p>WO 88 08025 A (DANISCO BIOTEKNOLOGI AS)  20 October 1988 (1988-10-20)  the whole document</p>	1,5
A	<p>HO K P ET AL: "Growth and carotenoid production of <i>Phaffia rhodozyma</i> in fed-batch cultures with different feeding methods"  <i>BIOTECHNOLOGY LETTERS</i>, vol. 21, no. 2, February 1999 (1999-02), pages 175-178, XP008028052  ISSN: 0141-5492  the whole document</p>	1
A	<p>FELL J W ET AL: "Separation of strains of the yeasts <i>Xanthophyllomyces dendrorhous</i> and <i>Phaffia rhodozyma</i> based on rDNA IGS and ITS sequence analysis"  <i>JOURNAL OF INDUSTRIAL MICROBIOLOGY AND BIOTECHNOLOGY</i>, vol. 23, no. 1, July 1999 (1999-07), pages 677-681, XP002274006  ISSN: 1367-5435  table 1</p>	10

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